

Program Structure

Week	Modules & Topics	Delivery Mode
	HTML , CSS and JavaScript	
	Basic Structure of an HTML Page	
	Various Tags and Attributes	
	Inline and Block Elements	
	Forms	
	Intro to CSS	
	CSS Properties and their syntaxes	
	Various Selectors in CSS and their preference orders	
	Inline , Internal and External Styling	
	Box Model	
	Programming Constructs	
	Primitives & Datatypes Variables	
	Built-in methods logical and and or operators	
	Boolean logic	- Online Video - Content
	Logical operators	
	Conditionals Loops - While & For	
1	Data Types in JavaScript	
	Functions	
	IIFEs	
	Arrays(Including Array Methods ans Array Iteration)	
	Objects]
	-Literals, Difference between Arrays & Objects	
	-Nested Arrays & Objects	
	-JSON	
	-Method augmentation	
	Scoping	
	Hoisting(Variable and Function)	
	Closures	
	Constructors]
	Asynchronous JavaScript	_
	Performing Ajax calls – GET and POST (XMLHttpRequest object, its properties, methods and events)	



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	ES6 Concepts(let and const, differences with var	
	Template strings	
	Default arguments for functions	
	Arrow functions – syntax and semantics (context of arrow	
	function calls)	
	Array and object destructuring	
	Rest operator – within arguments list, when destructuring	
	arrays and objects	
	Spread operator – when passing arguments as array items,	
	creating copies of objects and arrays	
	Classes and inheritance	
	Iterables, forof	
	Map, Set	
	Iterators and Generators Promises	
	Fetch API for Ajax calls	
	asyncawait Mantarad Lagraing Sassian	Live
	Mentored Learning Session Assessments	Live
	Practice Quiz and Labs	
	Angular	
	Webpack and Babel	
	Introduction to Angular	
	Angular Router and Single Page Applications	
	Angular Forms	Online Video
	Flow Architecture	Content
2-3	Redux	
2 3	Client Server Communication	
	Mentored Learning Session	Live
	Assessments	LIVE
	Practice Quiz and Labs	
	Mini-Hackathon	
	Foundations of Java Programming	
	Java Introduction	
	Data Types & Programming constructs	Online Video Content
4	Classes, Objects & Methods	
	OOPS Properties - Abstraction, Encapsulation, Polymorphism,	
	Inheritance	
	Constructors	
	Mentored Learning Session	Live
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	Practice Quiz and Labs		
	Data Structure in Using Java		
	Generics Annotations Exception Handling Collections Framework File IO Concurrency Streams API, Date & Time API		
	Mentored Learning Session	Live	
	Practice Quiz and Labs		
	Database with Java		
6	SQL DDL, DML and DQL Normalization Joins SubQuery Query optimization using Indexes JDBC Introduction to ORM using Hibernate Working with Hibernate using SQL and No SQL Mentored Learning Session Assessments Practice Quiz and Labs Mini-Hackathon Web Dev Frameworks -I	Live — Online	
7	Working with Maven Understanding and Creating web services using Traditional Approach Spring Fundamentals and Spring Core Spring DI Spring AOP Mentored Learning Session Practice Quiz and Labs Web Dev Frameworks -I Introduction to SpringBoot	Live	
8	Spring Boot MVC Spring Boot JPA using Mongodb		
	Mentored Learning Session	Live	



	Practice Quiz and Labs	
	Web Dev Frameworks -II	
9	Spring Security	
	Spring Cloud	Online Video
	Swagger Document	Content
	Introduction to Microservice	
	Working with Eureka Server	
	Mentored Learning Session	Live
	Practice Quiz and Labs	
	Web Dev Frameworks -III	
10	Working with Git	
	CI CD using Git	
	Working with Docker	
	Mentored Learning Session	Live
	assessments	Online
	Practice Quiz and Labs	
	Mini-Hackathon	
	Capstone Project	
11-12	This can be a group project, where a team works on an	
	application(Agile way) from scratch and submit by the end of the	Online
	last week	